ABSTRACT

The development of Marine Current Power Plant at Desa Ketapang, Kabupaten Lombok Timur, NTB, is one of the realization of the renewable power development in Indonesia. This type of power plant can only be operated in 10 hours per day, depends on the sea current speed level that most effective to turn the turbine. We need an energy storage system to make sure the continuity of power distribution to the consumer. The energy storage system consist of batteries (DC) which have special specification and charge - discharge characteristic. From data that we have, we calculate the Ampere-Hours that match with the system and how to set the batteries properly.

From the calculation result, it is finally obtained that we use 37 sets of GS-PS 2860 (2860 Ah / 6V) in serial.

Keywords: Marine Current Generator, Battery sizing
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